



# Wireless Power Transfer

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## TOOLS:

- [Solder \(1\)](#)
- [Soldering iron \(1\)](#)



## PARTS:

- [Copper wire \(1\)](#)
- [LED \(1\)](#)
- [20nf capacitor \(1\)](#)
- [16v ac power source \(1\)](#)

## Step 1 — Wireless Power Transfer



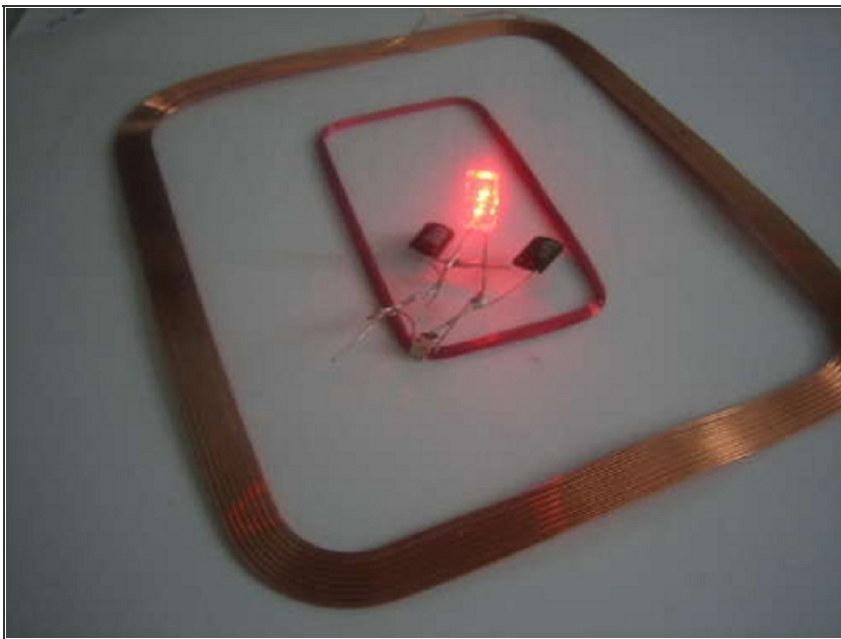
- The first thing is to make the big coil. You can do this by putting four nails into a board and wrapping the copper wire around them.

## Step 2



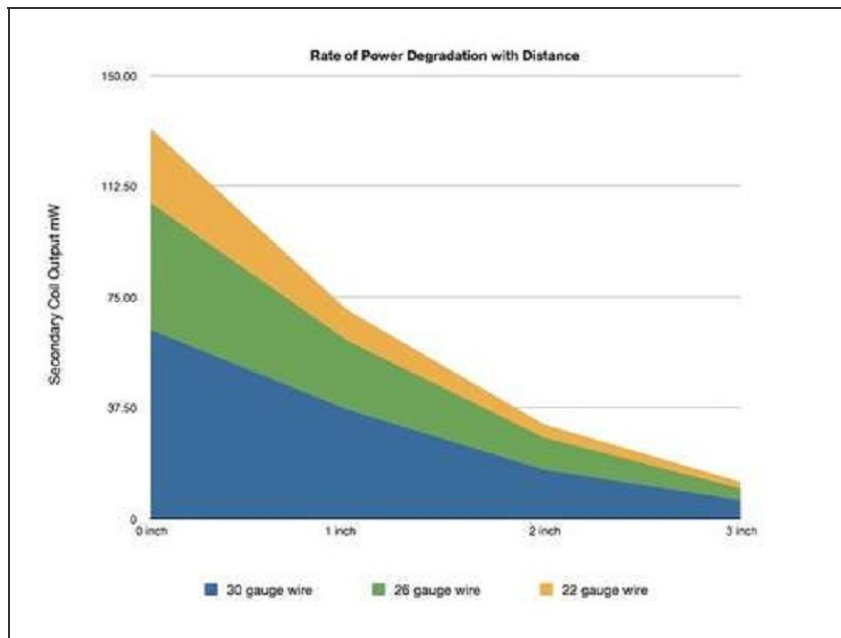
- Then you have to make the smaller coil. It has to be about half the size of the bigger one. You need to put an LED/bulb and a capacitor on the output. I put 2 because I didn't have one that had the right value. You could also put a bridge rectifier on it to turn the AC into DC.

## Step 3



- Connect the power to the big coil and put the small one in the middle and the LED should light up.

## Step 4



- I tested different gauge wire and the maximum efficiently I got was 42.2%.

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